

WHAT IS CLAIMED IS:

1. An information processing apparatus which is connected to an image input device and image output device via a communication medium, comprising:

5 input control means for controlling an image input process by the image input device;

output control means for controlling an image output process by the image output device;

10 storage means for storing a plurality of image processing modes, and input setup information and output setup information corresponding to the plurality of image processing modes; and

15 acquisition means for acquiring the input setup information and output setup information corresponding to the image processing mode selected by an operator from said storage means,

20 wherein said input control means controls the image input process of the image input device on the basis of the input setup information acquired by said acquisition means, and said output control means controls the image output process of the image output device on the basis of the output setup information acquired by said acquisition means.

2. The apparatus according to claim 1, further comprising display means for displaying the plurality of image processing modes.

3. The apparatus according to claim 2, wherein the image input device is an image scanner for scanning a document image, and said input control means is image scan control means for controlling an image scan process by the image scanner.
4. The apparatus according to claim 3, wherein the image output device is a printer for printing an image, and said output control means is print control means for controlling an image print process by the printer.
5. The apparatus according to claim 4, wherein the plurality of image processing modes are a plurality of copy modes which pertain to copy operation that uses the image scanner and the printer, and the input setup information and output setup information are scan setup information and print setup information corresponding to the plurality of copy modes.
6. The apparatus according to claim 5, wherein the scan setup information includes setup information which pertains to a scan method and scan resolution.
7. The apparatus according to claim 6, wherein the print setup information includes setup information which pertains to a print method, print resolution, print medium type, and print quality.
8. The apparatus according to claim 7, wherein said scan control means controls the image scanner to scan an image at a resolution lower than the scan resolution contained in the scan setup information.

9. The apparatus according to claim 4, wherein the printer is a printer with an image scan function, which is integrated with the image scanner, and the image scanner is detachable from the printer with the image scan function.

10. The apparatus according to claim 2, further comprising generation means for generating a plurality of image processing modes from the input setup information for controlling the image input device and the output setup information for controlling the image output device,

wherein said storage means stores the input setup information and output setup information in correspondence with the plurality of generated image processing modes, and said display means displays the plurality of image processing modes stored in said storage means.

11. The apparatus according to claim 4, wherein said storage means stores scan medium size information and print medium size information, which are selected by an operator, and

said apparatus further comprises:

determination means for determining a copy magnification on the basis of the scan medium size information and print medium size information stored in said storage means; and

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zoom processing means for zooming an image scanned by the image scanner on the basis of the copy magnification determined by said determination means.

12. An information processing apparatus which is  
5 connected to an image input device and image output device via a communication medium, comprising:

generation means for generating a plurality of image processing modes from input setup information for controlling the image input device, and output setup  
10 information for controlling the image output device;

storage means for storing the input setup information and the output setup information in correspondence with the plurality of image processing modes; and

15 display means for displaying the plurality of image processing modes stored in said storage means.

13. The apparatus according to claim 12, further comprising:

input control means for controlling the image  
20 input device on the basis of the input setup information; and

output control means for controlling the image output device on the basis of the output setup information.

25 14. The apparatus according to claim 13, wherein the image input device is an image scanner for scanning a document image, and said input control means is image

scan control means for controlling an image scan process by the image scanner.

15. The apparatus according to claim 14, wherein the image output device is a printer for printing an image, and said output control means is print control means for controlling an image print process by the printer.

16. The apparatus according to claim 15, wherein said generation means generates the plurality of copy modes on the basis of scan setup information for controlling the image scanner and print setup information for controlling the printer, and said storage means stores the scan setup information and print setup information in correspondence with the plurality of copy modes.

17. The apparatus according to claim 16, wherein the scan setup information includes setup information which pertains to a scan method and scan resolution.

18. The apparatus according to claim 17, wherein the print setup information includes setup information which pertains to a print method, print resolution, print medium type, and print quality.

19. An image processing method in an information processing apparatus which is connected to an image input device and image output device via a communication medium, comprising:

the acquisition step of acquiring input setup information and output setup information corresponding to an image processing mode selected by an operator

from input setup information and output setup  
information pre-stored in a memory;

the input control step of controlling an image  
input process of the image input device on the basis of  
5 the input setup information acquired in the acquisition  
step; and

the output control step of controlling an image  
output process of the image output device on the basis  
of the output setup information acquired in the  
10 acquisition step.

20. The method according to claim 19, further  
comprising the display control step of displaying the  
plurality of image processing modes on a display.

21. The method according to claim 20, wherein the  
15 image input device is an image scanner for scanning a  
document image, and the input control step comprises  
the image scan control step of controlling an image  
scan process by the image scanner.

22. The method according to claim 21, wherein the  
20 image output device is a printer for printing an image,  
and the output control step comprises the print control  
step of controlling an image print process by the  
printer.

23. The method according to claim 22, wherein the  
25 plurality of image processing modes are a plurality of  
copy modes which pertain to copy operation using the  
image scanner and the printer, and the input setup

information and output setup information are scan setup information and print setup information corresponding to the plurality of copy modes.

24. The method according to claim 23, wherein the  
5 scan setup information includes setup information which pertains to a scan method and scan resolution.

25. The method according to claim 24, wherein the  
print setup information includes setup information  
which pertains to a print method, print resolution,  
10 print medium type, and print quality.

26. The method according to claim 25, wherein the  
scan control step includes the step of controlling the  
image scanner to scan an image at a resolution lower  
than the scan resolution contained in the scan setup  
15 information.

27. The method according to claim 20, further  
comprising:

the generation step of generating a plurality of  
image processing modes from the input setup information  
20 for controlling the image input device and the output  
setup information for controlling the image output  
device; and

the storage step of storing in the memory the  
input setup information and output setup information in  
25 correspondence with the plurality of generated image  
processing modes,

wherein the display control step includes the step of displaying on the display the plurality of image processing modes stored in the storage step.

28. The method according to claim 22, wherein scan  
5 medium size information and print medium size information, which are selected by an operator, are pre-stored in the memory, and

said method further comprises:

the determination step of determining a copy  
10 magnification on the basis of the stored scan medium size information and print medium size information; and

the zoom processing step of zooming an image scanned by the image scanner on the basis of the copy magnification determined in the determination step.

29. An image processing method in an information  
15 processing apparatus which is connected to an image input device and image output device via a communication medium, comprising:

the generation step of generating a plurality of  
20 image processing modes from input setup information for controlling the image input device, and output setup information for controlling the image output device;

the storage step of storing in a memory the input setup information and the output setup information in  
25 correspondence with the plurality of image processing modes; and



the display control step of controlling to display on a display the plurality of image processing modes stored in the storage step.

30. The method according to claim 29, further comprising:

the input control step of controlling the image input device on the basis of the input setup information; and

the output control step of controlling the image output device on the basis of the output setup information.

31. The method according to claim 30, wherein the image input device is an image scanner for scanning a document image, and said input control means is the image scan control step of controlling an image scan process by the image scanner.

32. The method according to claim 31, wherein the image output device is a printer for printing an image, and said output control means is the print control step of controlling an image print process by the printer.

33. The method according to claim 32, wherein the generation step includes the step of generating the plurality of copy modes on the basis of scan setup information for controlling the image scanner and print setup information for controlling the printer, and the storage step includes the step of storing in the memory

the scan setup information and print setup information  
in correspondence with the plurality of copy modes.

34. The method according to claim 33, wherein the  
scan setup information includes setup information which  
5 pertains to a scan method and scan resolution.

35. The method according to claim 34, wherein the  
print setup information includes setup information  
which pertains to a print method, print resolution,  
print medium type, and print quality.

10 36. A computer readable storage medium which stores a  
program code of an image processing method in an  
information processing apparatus which is connected to  
an image input device and image output device via a  
communication medium, comprising:

15 an acquisition code for acquiring input setup  
information and output setup information corresponding  
to an image processing mode selected by an operator  
from input setup information and output setup  
information pre-stored in a memory;

20 an input control code for controlling an image  
input process of the image input device on the basis of  
the input setup information acquired by the acquisition  
code; and

an output control code for controlling an image  
25 output process of the image output device on the basis  
of the output setup information acquired by the  
acquisition code.

37. A computer readable storage medium which stores a program code of an image processing method in an information processing apparatus which is connected to an image input device and image output device via a communication medium, comprising:

a generation code for generating a plurality of image processing modes from input setup information for controlling the image input device, and output setup information for controlling the image output device;

10 a storage code for storing in a memory the input setup information and the output setup information in correspondence with the plurality of image processing modes; and

a display control code for controlling to display on a display the plurality of image processing modes stored by the storage code.

38. A computer readable memory which stores a program code of an image processing method which is implemented using a scanner driver and printer driver in a host computer which is connected to a scanner and printer via a communication medium, comprising:

a copy control code for controlling the scanner driver and printer driver, and controlling a user interface which is used to make a copy operation and display copy information; and

a shared information storage code for storing, in a memory, setup information which is shared and used

among the scanner driver, the printer driver, and the copy control code.

39. The medium according to claim 38, wherein the setup information includes scan setup information and  
5 print setup information which correspond to a plurality of copy modes.

40. The medium according to claim 39, wherein the copy control code acquires scan setup information and print setup information corresponding to the copy mode  
10 selected by an operator from the memory, passes the scan setup information to the scanner driver, and passes the print setup information to the printer driver.

41. The medium according to claim 40, wherein the  
15 copy control code controls to display the plurality of copy modes on the user interface.

42. The medium according to claim 41, wherein the setup information includes scan document size information and print paper size information.

43. The medium according to claim 42, wherein the  
20 copy control code controls to acquire the scan document size information and print paper size information selected by the operator from the memory, determine a copy magnification on the basis of the acquired scan  
25 document size information and print paper size information, and zoom an image scanned by the scanner on the basis of the determined copy magnifications.

44. The medium according to claim 38, wherein the copy control code controls to generate a plurality of copy modes from the setup information, and display the plurality of generated copy modes on the user interface  
5 in correspondence with the setup information.

45. A computer readable memory which stores a program code of an image processing method which is implemented using a scanner driver and printer driver in a host computer which is connected to a scanner and printer  
10 via a communication medium, comprising:

a copy control code for controlling the scanner driver and printer driver, and controlling a user interface which is used to make a copy operation and display copy information; and

15 a shared information storage code for storing, in a memory, setup information which is shared and used among the scanner driver, the printer driver, and the copy control code,

wherein the copy control code controls to  
20 generate a plurality of copy modes from the setup information, and display the plurality of generated copy modes on the user interface in correspondence with the setup information.

46. The medium according to claim 45, wherein the  
25 copy control code generates the plurality of copy modes from scan setup information and print setup information included in the setup information.

47. A program for implementing an image processing method in an information processing apparatus which is connected to an image input device and image output device via a communication medium, comprising:

5 the acquisition step of acquiring input setup information and output setup information corresponding to an image processing mode selected by an operator from input setup information and output setup information pre-stored in a memory;

10 the input control step of controlling an image input process of the image input device on the basis of the input setup information acquired in the acquisition step; and

the output control step of controlling an image  
15 output process of the image output device on the basis of the output setup information acquired in the acquisition step.

48. A program for implementing an image processing method in an information processing apparatus which is  
20 connected to an image input device and image output device via a communication medium, comprising:

the generation step of generating a plurality of image processing modes from input setup information for controlling the image input device, and output setup  
25 information for controlling the image output device;

the storage step of storing in a memory the input setup information and the output setup information in

correspondence with the plurality of image processing modes; and

the display control step of controlling to display on a display the plurality of image processing modes stored in the storage step.

49. A program code for implementing an image processing method that uses a scanner driver and printer driver in a host computer which is connected to a scanner and printer via a communication medium, comprising:

the copy control step of controlling the scanner driver and printer driver, and controlling a user interface which is used to make a copy operation and display copy information; and

the shared information storage step of storing, in a memory, setup information which is shared and used among the scanner driver, the printer driver, and the copy control step.

50. The program according to claim 49, wherein the setup information includes scan setup information and print setup information which correspond to a plurality of copy modes.

51. The program according to claim 50, wherein the copy control step includes the step of acquiring scan setup information and print setup information corresponding to the copy mode selected by an operator from the memory, passing the scan setup information to

the scanner driver, and passing the print setup information to the printer driver.

52. The program according to claim 51, wherein the copy control step includes the step of controlling to display the plurality of copy modes on the user interface.

53. The program according to claim 52, wherein the setup information includes scan document size information and print paper size information.

10 54. The program according to claim 53, wherein the copy control step includes the step of controlling to acquire the scan document size information and print paper size information selected by the operator from the memory, determine a copy magnification on the basis of the acquired scan document size information and print paper size information, and zoom an image scanned by the scanner on the basis of the determined copy magnifications.

55. The program according to claim 49, wherein the copy control step includes the step of controlling to generate a plurality of copy modes from the setup information, and display the plurality of generated copy modes on the user interface in correspondence with the setup information.

25 56. A program for implementing an image processing method which uses a scanner driver and printer driver



in a host computer which is connected to a scanner and printer via a communication medium, comprising:

the copy control step of controlling the scanner driver and printer driver, and controlling a user  
5 interface which is used to make a copy operation and display copy information; and

the shared information storage step of storing, in a memory, setup information which is shared and used among the scanner driver, the printer driver, and the  
10 copy control step,

wherein the copy control step includes the step of controlling to generate a plurality of copy modes from the setup information, and display the plurality of generated copy modes on the user interface in  
15 correspondence with the setup information.

57. The program according to claim 56, wherein the copy control step includes the step of generating the plurality of copy modes from scan setup information and print setup information included in the setup  
20 information.